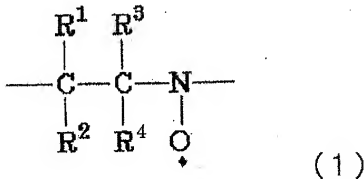


AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. **(currently amended):** A secondary battery ~~having comprising~~ at least a positive electrode, a negative electrode, and an electrolyte, wherein ~~the secondary battery includes a polymer having a repeating unit represented by formula (1) as an active material of at least one of the positive electrode and the negative electrode~~ comprises a polymer having a repeating unit represented by formula (1) as an active material:-



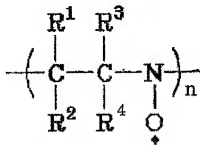
According to formula (1), ~~wherein~~ R1, R2, R3 and R4 each independently represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aromatic hydrocarbons, a substituted or unsubstituted hetroaromatic groups, a halogen atom, or an alkylene group that may be coupled to ~~the ring form~~ at least one or both of R1 and R3, and R2

and R4, to form a ring.

2. (currently amended): The secondary battery according to claim 1
~~contains~~containing the polymer as a positive electrode active material.

3. (original): The secondary battery according to claim 1, wherein the secondary battery
is a lithium secondary battery.

4. (currently amended): A secondary battery ~~having~~comprising at least a positive
electrode, a negative electrode, and an electrolyte, wherein ~~the secondary battery includes a~~
~~polymer represented by formula (2) as an active material of~~ at least one of ~~the~~ positive electrode
and ~~the~~ negative electrode comprises a polymer represented by formula (2) as an active material;



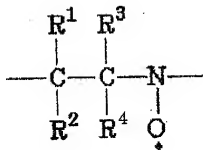
(2)

~~According to formula (1), wherein~~ R1, R2, R3 and R4 each independently represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aromatic hydrocarbons, a substituted or unsubstituted hetroaromatic groups, a halogen atom, or an alkylene group that may be coupled to ~~the ring form~~ at least one or both of R1 and R3, and R2 and R4, to form a ring, and
wherein n represents a positive integer.

5. (original): The secondary battery according to claim 4 containing the polymer as a positive electrode active material.

6. (original): The secondary battery according to claim 4, wherein the secondary battery is a lithium secondary battery.

7. (currently amended): A secondary battery ~~containing comprising at least a positive electrode and a negative electrode, wherein a polymer having a repeating unit represented by formula (1) is~~ a reactant or product of ~~at least one of an~~ electrode reaction of at least a positive electrode and a negative electrode, wherein the polymer has a repeating unit represented by formula (1):



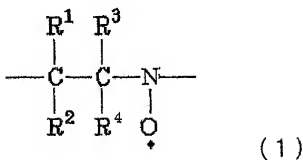
(1)

~~According to formula (1), and wherein~~ R1, R2, R3 and R4 each independently represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aromatic hydrocarbons, a substituted or unsubstituted hetroaromatic groups, a halogen atom, or an alkylene group that may be coupled to the ring form at least one of or both of R1 and R3, and R2 and R4, to form a ring.

8. (original): The secondary battery according to claim 7 containing the polymer as a reactant or product of the positive electrode reaction.

9. (original): The secondary battery according to claim 7, wherein the secondary battery is a lithium secondary battery.

10. (currently amended): A secondary battery ~~of~~ comprises at least a positive electrode and a negative electrode, wherein at least one of electrode reaction of a positive electrode and negative electrode ~~containing~~ contains a chemical compound obtained by forming a polymer having a repeating unit represented by formula (1):



According to formula (1), wherein R1, R2, R3 and R4 each independently represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aromatic hydrocarbons, a substituted or unsubstituted hetroaromatic groups, a halogen atom, or an alkylene group that may be coupled to ~~the ring form~~ at least one or both of R1 and R3, and R2 and R4, to form a ring.

11. (original): The secondary battery according to claim 10, wherein the chemical compound is contained in the positive electrode.

12. (original): The secondary battery according to claim 10, wherein the secondary battery is a lithium secondary battery.